

From glowbugs@theporch.com Sat Nov 2 09:44:47 1996  
Return-Path: <glowbugs@theporch.com>  
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com  
(8.8.2/AUX-3.1.1) with SMTP id JAA22450; Sat, 2 Nov 1996 09:39:02 -0600 (CST)  
Date: Sat, 2 Nov 1996 09:39:02 -0600 (CST)  
Message-Id: <199611021539.JAA22450@uro.theporch.com>  
Errors-To: conard@tntech.campus.mci.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 339  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 339

Topics covered in this issue include:

- 1) Re: BA net  
by rdkeys@csemail.cropsci.ncsu.edu
- 2) FS/TRADE LIST....357 LINE'S  
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 3)  
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 4) Re: Tube Reactivation Inf  
by ralph.hartwell@emachine.com (Ralph Hartwell)
- 5) Re: Solving the copyright problem  
by EricNess@aol.com
- 6) Bravo on QST request  
by Gordon Gekko <gekko@nwlinc.com>
- 7) Re: Bravo on QST request  
by toyboat@freenet.edmonton.ab.ca
- 8) 1625s  
by w8lrm@qtm.net
- 9) Source of Screws??  
by "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
- 10) Re: Tube Reactivation Inf  
by W4AOS@aol.com
- 11) Homebrewing Tubes  
by W4AOS@aol.com

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Date: Fri, 1 Nov 1996 13:00:03 -0500 (EST)

From: rdkeys@csemail.cropsci.ncsu.edu  
To: richqrp@pacbell.net  
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com  
Subject: Re: BA net  
Message-ID: <9611011800.AA109572@csemail.cropsci.ncsu.edu>

>

> Could someone please tell me the frequency of the Net and the time?  
> I thought it was 7050kc. but dont really remember.  
> thanks, rich, wd6fdd  
>

Well, the usual has been 0200Z/7050khz, 0300Z/3579R545khz,  
0400Z/1802R500khz, 0500/3579R545KHZ.

In general meet on 7050 or 3579R545 anytime after dark, but most  
offical nettish times are as above.

Call: CQ BA CQ BA DE yourcall yourcall K

Start about on the hour until about 5 min after and if no-one shows up,  
try the next net time/frequency.

Remember, it is an informal roundtable, unless a herd shows up, and then  
a sort-of net structure will be followed.

73/ZUT DE NA4G/Bob UP

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Date: Fri, 1 Nov 1996 13:40:43 -0500  
From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>  
To: boatanchors@theporch.com  
Subject: FS/TRADE LIST....357 LINE'S  
Message-ID: <2.2.16.19961102014146.250f0c74@fvmail.com>

If you'd like this list email me....i want to find homes for this stuff....  
the list has prices..as always, offers are welcome....  
thank you

=====] -[->

Robert Fowle KC8DBC  
The HAMMARLUND Historian  
Ph. 517-789-6721  
1215 Winifred  
Jackson, Mich. 49202-1946  
E-mail: hammarlund@jacksonmi.com

Web Page: <http://www.jacksonmi.com/hammarlund>

HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

Boatanchors: the list: [listproc@theporch.com](mailto:listproc@theporch.com).....subscribe boatanchors  
<your name>

the news group: [rec.radio.amateur.boatanchors](mailto:rec.radio.amateur.boatanchors)

news group: [ham-am@Listserv@ucsd.edu](mailto:ham-am@Listserv@ucsd.edu)....Body: add ham-am

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Date: Fri, 1 Nov 1996 15:15:14 -0500

From: "Robert Fowle (KC8DBC)" <[hammarlund@jacksonmi.com](mailto:hammarlund@jacksonmi.com)>

To: [boatanchors@theporch.com](mailto:boatanchors@theporch.com)

Message-ID: <2.2.16.19961102031618.33b7761a@fvmail.com>

there are some of you, whom iv'e sent the list too, and it has bounced back.  
if you ask for it, and haven't got it, i can send it as an attached file, or  
can post

it to [rec.radio.amateur.boatanchors](mailto:rec.radio.amateur.boatanchors) (which i have done)

=====]-[->

Robert Fowle KC8DBC

The HAMMARLUND Historian

Ph. 517-789-6721

1215 Winifred

Jackson, Mich. 49202-1946

E-mail: [hammarlund@jacksonmi.com](mailto:hammarlund@jacksonmi.com)

Web Page: <http://www.jacksonmi.com/hammarlund>

HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

Boatanchors: the list: [listproc@theporch.com](mailto:listproc@theporch.com).....subscribe boatanchors  
<your name>

the news group: [rec.radio.amateur.boatanchors](mailto:rec.radio.amateur.boatanchors)

news group: [ham-am@Listserv@ucsd.edu](mailto:ham-am@Listserv@ucsd.edu)....Body: add ham-am

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Date: Fri, 1 Nov 1996 20:46:00 GMT

From: [ralph.hartwell@emachine.com](mailto:ralph.hartwell@emachine.com) (Ralph Hartwell)

To: [glowbugs@theporch.com](mailto:glowbugs@theporch.com)

Subject: Re: Tube Reactivation Inf

Message-ID: <9611011526115767@emachine.com>

W>Suppose you have a thoriated tungsten filament tube and the rejuvenation  
W>process doesn't work. (It eventually will not work when no more thorium is  
W>available to be boiled to the surface). In that case how about just using it  
W>as a tungsten filament tube, that is, jack the filament voltage up until the  
W>tube glows good and bright and puts out plenty of electrons. Seems to me

That works - sort of - but usually by that time the cathode is only  
emitting electrons from a few areas instead of the entire cathode  
surface. As a result, the tube exhibits varying control characteristics  
and may be unstable. High power xmtg tubes will show uneven anode  
heating, sometimes showing very hot spots, even to the point of melting  
holes in the anode. In addition, the excess heat may cause the tube to  
go gassy, but what the heck - if the tube is useless anyway, you've got  
nothing to lose by trying.

Ralph

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QMPPro 1.53 <<---- THIS SPACE FOR SALE ---->> ; send cash only!

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Date: Fri, 1 Nov 1996 18:04:20 -0500  
From: EricNess@aol.com  
To: glowbugs@theporch.com  
Subject: Re: Solving the copyright problem  
Message-ID: <961101180420\_221335642@emout02.mail.aol.com>

I second Jeff's motion for creating our own library of circuits of our own  
designs. I will sign up to document my next project, a push-pull  
oscillator/transmitter for 80/40 meters. My idea here is to use two of the  
low cost series string power pentode tubes in a classic push pull oscillator  
configuration. At first I thought about using 50L6s but then I saw that  
12L6's are less than \$2.00 at AES. These tubes are not the same as the  
classic 6L6 with a different heater but, they are respectable. They have a  
10 Watt plate dissipation and like to work at Voltages between 100 and 200  
Volts. This will let me use an isolation transformer for power.

If this project goes well, I am thinking about a monster push-pull oscillator  
using 1625s. I recently acquired four large crystals ground just below the  
80 meter band. The quartz slap is the size of a postage stamp and should  
handle the current. Oops, I'm getting ahead of myself. Any comments and/or  
advice on my pp xxL6 transmitter are welcome.

73,

Eric, WD6DGX  
Cupertino, California

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Date: Fri, 1 Nov 1996 15:40:33 -0800 (PST)  
From: Gordon Gekko <gekko@nwlink.com>  
To: glowbugs@theporch.com  
Subject: Bravo on QST request  
Message-ID: <199611012340.PAA20046@montana.nwlink.com>

Great letter, robert!

I too will wait with baited breath. The scans I have in my machine are all from ARRL publications of the bygone era, and easily cited with credits.

Thanks for the efforts!

..Waiting for the 'big' reply...

Dave WB7AWK  
gekko@nwlink.com>

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Date: Fri, 1 Nov 1996 17:45:08 -0700 (MST)  
From: toyboat@freenet.edmonton.ab.ca  
To: Gordon Gekko <gekko@nwlink.com>  
Cc: Multiple recipients of list <glowbugs@theporch.com>  
Subject: Re: Bravo on QST request  
Message-ID: <Pine.A41.3.95.961101171445.63928C-100000@fn2.freenet.edmonton.ab.ca>

On Fri, 1 Nov 1996, Gordon Gekko wrote:

> Great letter, robert!  
>  
> I too will wait with baited breath. The scans I have in my machine are all  
> from ARRL publications of the bygone era, and easily cited with credits.  
>  
> Thanks for the efforts!  
>  
>

> ..Waiting for the 'big' reply...

>

>

>

> Dave WB7AWK

> gekko@nwlink.com>

>

I also applaud Bob Keys for his efforts. He really binds this group together. The info that he posts answers many of my questions before I even get around to asking them.

I would really love to see those Reinartz Regen articles. Those breadboard/busbar/screw terminal tube socket projects are so appealing. Spiderweb and Lorenz coils really fascinate me. I also love reading about how early hams ingeniously home-brewed capacitors, transformers, and other parts taken for granted as "factory-made" later on.

My main library is well-supplied with QST issues from 1925 to the present, thanks to a local ham who donated his entire collection in 1973. However, those really early issues were before he started his subscription, I guess. Those pioneer issues (1915 - 1924) have eluded me anywhere locally, so I eagerly await seeing any articles from them.

\*\* Shane Wilcox <toyboat@freenet.edmonton.ab.ca> \*\*

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Date: Fri, 1 Nov 1996 21:39:04 +0000

From: w8lrm@qtm.net

To: glowbugs@theporch.com

Subject: 1625s

Message-ID: <199611020137.UAA21223@garcon.qtm.net>

Hi Gang

First post to this list. I just got my hands on a military transmitter like the one I used as a novice in 1952. The model number is BC-696A. Any idea where I can find a manual or at least a schematic. I remember we gutted the vfo and made it xtal control because novices in those days were limited to xtal control.

The rest of my novice days is a story for a future post.

73...de....W8LRM

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Date: Fri, 1 Nov 1996 20:33:32 -0700 (MST)  
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>  
To: Glowbugs <glowbugs@theporch.com>  
Subject: Source of Screws??  
Message-ID: <Pine.SV4.3.91.961101203247.29229B-1000000@mesa5.mesa.colorado.edu>

I've got some ba gear with some screws missing. (The equipment has some screws missing, not me!) Where is a good source of 8-32 by 1/4" pan head machine screws? I only need a few but I want to buy brand new ones so that the screwdriver slots are nice and sharp. If I find a good source, I will stock up on some other sizes as well.

Thanks.

Jim WOKSD

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Date: Sat, 2 Nov 1996 09:22:50 -0500  
From: W4AOS@aol.com  
To: ralph.hartwell@emachine.com  
Subject: Re: Tube Reactivation Inf  
Message-ID: <961102092250\_221537744@emout07.mail.aol.com>

In a message dated 96-11-01 16:43:52 EST, you write:

<<

That works - sort of - but usually by that time the cathode is only emitting electrons from a few areas instead of the entire cathode surface. >>

Hi Ralph, thanks for the comments, yes my main thought was that at that point you've got nothing to lose.

I'm not quite sure what you mean by "the cathode is only emitting electrons from a few areas ...." I envision the tube being a filament type without a separate cathode and the emission from the filament being purely from the filament as a piece of hot tungsten without any thorium or other aids to emission. I believe that any remaining thorium would be quickly driven off at the higher operating temperature 2500 to 2600 degrees K versus 1950 to

2000 degrees K for the thoriated filament. There's probably more to it than my simplified view and I just wondered if you had any more details?

p.s. I wouldn't try this on a power tube unless I was really desperate.

Thanks Bob w4aos@aol.com

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Date: Sat, 2 Nov 1996 09:23:01 -0500  
From: W4AOS@aol.com  
To: glowbugs@theporch.com  
Subject: Homebrewing Tubes  
Message-ID: <961102092301\_221537782@emout11.mail.aol.com>

While reading some old QST's I came across the following in QST for June 1945. I thought it might be interesting to some of you who have been discussing homebrew tubes. It does not contain any really useful information for those wanting to make tubes, but shows that it can be done.

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>From June 1945 QST pages 58&84

REPORT ON AMATEUR TUBE MAKING  
3035 East Van Buren, Phoenix Ariz.  
Editor QST:

I noticed in the January, 1945, issue of QST that T/Sgt. Warren H. Donnelly asks about glass blowing, vacuum pumps and tube parts. I wondered if there are others interested enough to know about and use these things.

I made my first tube nearly twenty years ago and have made many electronic devices since and always as an amateur. The great mystery of the vacuum tube is not hard to unravel. The hardest part is finding the necessary information and the patience to learn glass working. Glass blowing is a matter of practice. Vacuum technique is a matter of catching all the little things. Tube parts usually can be made from materials found in the home, with the exception of glass tubing and filaments or cathodes.

Oxide-coated heaters and filaments are not too difficult. You can make metal tubes easily in some cases. "Getters" are easy to use when you once know how. A small one-piece motor, vacuum pump, and blower (or air pressure pump) can be built. This is used for air for a homemade glass-blowing torch and a vacuum pump for the rough vacuum. The high vacuum is produced by a diffusion-, or condensation-pump, and is made entirely of glass. Tools such as small jigs, a small spot-welder, torches, etc., all are easy to make.

It costs less to buy a finished tube, but one can not always find just that special tube, and glass blowing and tube making are lots of fun for those who like to learn and build such things. For those who are very serious about the scientific angle or who for other reasons of their own desire to be able to build tubes of various kinds -- it can be done at home.



C. N. Lowenstein W6TEG

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Hope some of you found this interesting

73 Bob w4aos@aol.com

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End of GLOWBUGS Digest 339

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